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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/043,497	01/11/2002	Michael Anthony Pugel	PU010223	9185	
7:	7590 06/22/2006			EXAMINER	
JOSEPH S. TRIPOLI THOMSON MULTIMEDIA LICENSING INC. 2 INDEPENDENCE WAY P.O. BOX 5312 PRINCETON, NJ 08543-5312			YIMAM, H	YIMAM, HARUN M	
			ART UNIT	PAPER NUMBER	
			2623		
			DATE MAILED: 06/22/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Commence	10/043,497	PUGEL ET AL.			
Office Action Summary	Examiner	Art Unit			
	Harun M. Yimam	2623			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status		:			
1) Responsive to communication(s) filed on 11 Ja	nuary 2002.				
• • • • • • • • • • • • • • • • • • • •	action is non-final.				
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closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		: :			
4) Claim(s) 1-10 is/are pending in the application.	•				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-10</u> is/are rejected.					
7) Claim(s) is/are objected to.		.			
8) Claim(s) are subject to restriction and/or	r election requirement.	1			
Application Papers					
9) The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Drianity under 25 H.C.C. \$ 440					
Priority under 35 U.S.C. § 119		:			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 01/11/2002.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:				

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Note to Applicant

Art Units 2611, 2614 and 2617 have changed to 2623. Please make all future correspondence indicate the new designation 2623.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 2, 4, 6, 7 and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Vogel (US 6,804,262).

Considering claim 1, Vogel discloses in a multi-mode bi-directional communications (downstream and upstream communication—column 5, lines 30-55 and column 6, lines 40-64), an apparatus (cable modem—22 in figure 3) for processing received downstream data (column 5, lines 53-55) comprising: a tuner (108 in figure 3 and column 9, lines 34-42); a demodulator (114 in figure 3, column 5, lines 53-55 and column 10, lines 17-25); a first filter (112 in figure 3 and column 9, lines 48-51) adapted

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for selective coupling between the tuner and the demodulator (column 9, lines 55-60); and a second filter (116 in figure 3) adapted for selective coupling between the tuner and the demodulator (column 9, lines 55-60).

As for claim 2, Vogel discloses that the first filter has a bandwidth of 6 MHz (column 9, lines 45-51).

Regarding claim 4, Vogel discloses a selector for selectively coupling the first filter and the second filter between the tuner and the demodulator (110 in figure 3 and column 9, line 43 – column 10, line 25).

Considering claim 6, Vogel discloses that the downstream data is filtered to pass a data signal modulation frequency of greater than 88 MHz to the tuner (column 6, lines 25-39).

With regards to claim 7, Vogel discloses that the multi-mode bi-directional communications device is a cable modem (22 in figure 3, column 5, lines 53-55 and column 8, lines 36-59).

Considering claim 9, Vogel discloses that the first filter (112 in figure 3) is a surface acoustic wave (SAW) filter (column 9, lines 49-50).

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 3 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vogel (US 6,804,262) in view of Uskali (US 2002/0157106).

With regards to claim 3, Vogel discloses that the first filter has a bandwidth of 6 MHz (column 9, lines 45-51). Vogel also discloses that the second filter changes the bandwidth of the first filter such that a second frequency selection system is defined (column 9, lines 55-68). Vogel further discloses that various modifications of the frequency selection system may be made and suggests that the second filter and the first filter may be connected in parallel rather than in series (column 10, lines 1-9).

Vogel fails to disclose that the second filter has a bandwidth of 8 MHz.

In analogous art, Uskali discloses that the second filter has a bandwidth of 8 MHz (paragraph 0022, lines 13-30).

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Vogel's system to include a second filter with a bandwidth of 8 MHz, as taught by Uskali, for the benefit of implementing the multimode bi-directional communications device in both the United States and abroad.

Regarding claim 8, it is met by the combination of Vogel and Uskali. In particular, Uskali discloses that the apparatus supports multiple standards selected from the group consisting of the North American Data Over Cable Service Interface

Specifications (DOCSIS) and the European DOCSIS standards (column 6, lines 6-13).

5. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Vogel (US 6,804,262) in view of Atokawa (US 6,308,051).

Considering claim 5, Vogel discloses a selector comprising a switch for selectively coupling the first filter and the second filter between the tuner and the demodulator (110 in figure 3 and column 9, line 43 – column 10, line 25).

Vogel fails to disclose that the selector comprises a diode switch.

In analogous art, Atokawa discloses that the selector comprises a diode switch (D3 in figure 1 and column 5, lines 48-60).

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Vogel's system to include a selector comprising a diode switch, as taught by Atokawa, for the benefit of providing different forms of selectors.

6. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Vogel (US 6,804,262) in view of Widmer (US 6,169,569).

As for claim 10, Vogel discloses that the first filter (112 in figure 3) is a surface acoustic wave (SAW) filter (column 9, lines 49-50).

Vogel fails to disclose that the second filter is a surface acoustic wave (SAW) filter.

In analogous art, Widmer discloses that the second filter is a surface acoustic wave (SAW) filter.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Vogel's system to include that the second filter is a surface acoustic wave (SAW) filter, as taught by Widmer, for the benefit of providing significant advantages in performance, cost, and size over other filter technologies.

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Conclusion

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Harun M. Yimam whose telephone number is 571-272-

7260. The examiner can normally be reached on M-F 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chris Grant can be reached on 571-272-7294. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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HMY

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